

IN THE CLAIMS

This listing of claims replaces all prior listings:

1. (currently amended) A non-aqueous electrolyte secondary cell comprising:
a cathode comprising $\text{Li}_x\text{Fe}_y\text{PO}_4$ having a particle diameter not greater than 1 micrometer
and wherein $0 < x \leq 2$ and $1 \leq y \leq 2$;

an anode ~~comprising~~ consisting of:

(1) a sintered carbon material prepared by sintering a binderless carbon material capable of doping/dedoping lithium; and

(2) a conductive agent comprising $\text{D}_s\text{E}_t\text{Li}_u$, wherein D is Li and a tin or silicon, containing metal material which forms an alloy or a compound with Li ~~E includes another element, Li is lithium, and $s > 0$, $t > 0$, and $u > 0$; and~~
a non-aqueous electrolyte solution.

2-3. (canceled)

4. (currently amended) A non-aqueous electrolyte secondary cell comprising:
a cathode having a molded body comprising a cathode active material and a conductive agent, said active material comprising $\text{Li}_x\text{Fe}_y\text{PO}_4$ and having a particle diameter not greater than 1 micrometer wherein $0 < x \leq 2$ and $1 \leq y \leq 2$;

an anode having a molded body ~~comprising a material selected from the group consisting of an anode active~~ (1) a binderless sintered carbon material capable of doping/dedoping lithium, and (2) a conductive agent comprising $\text{D}_s\text{E}_t\text{Li}_u$, ~~wherein D is tin or silicon, E includes another element, Li is lithium, and $s > 0$, $t > 0$, and $u > 0$ and a tin or silicon~~
metal material which forms an alloy or a compound with Li; and

a non-aqueous electrolyte solution.

5-13. (canceled)

14. (previously presented) The non-aqueous electrolyte secondary cell of Claim 1, wherein said carbon material is selected from the group consisting of non-graphitizable carbon, graphitizable carbon, graphite, and mixtures thereof.

15. (previously presented) The non-aqueous electrolyte secondary cell of Claim 1, wherein said non-aqueous electrolyte solution comprises an electrolyte salt and a non-aqueous solvent.

16. (previously presented) The non-aqueous electrolyte secondary cell of Claim 15, wherein said electrolyte salt is a lithium salt having ion conductivity.

17. (previously presented) The non-aqueous electrolyte secondary cell of Claim 16, wherein said lithium salt is selected from the group consisting of LiClO_4 , LiAsF_6 , LiPF_6 , LiBF_4 , $\text{LiB}(\text{C}_6\text{H}_5)_4$, LiCl , LiBr , $\text{CH}_3\text{SO}_3\text{Li}$, $\text{N}(\text{C}_n\text{F}_{2n}\text{SO}_2)_2\text{Li}$, and mixtures thereof.

18. (previously presented) The non-aqueous electrolyte secondary cell of Claim 15, wherein said non-aqueous solvent is selected from the group consisting of propylene carbonate, ethylene carbonate, 1,2-dimethoxyethane, 1,2-diethoxyethane, diethyl carbonate, methyl ethyl carbonate, dimethyl carbonate, γ -butyrolactone, tetrahydrofuran, 1,3-dioxolane, 4-methyl-1,3-dioxolane, diethyl ether, sulfolane, methyl sulfolane, acetonitrile, propionitrile, and mixtures thereof.

19. (currently amended) The non-aqueous electrolyte secondary cell of Claim 4, wherein ~~said anode active material comprises a~~ sintered carbon material is selected from the group consisting of non-graphitizable carbon, graphitizable carbon, graphite, and mixtures thereof.

20-21. (canceled)

22. (currently amended) The non-aqueous electrolyte secondary cell of Claim 4, wherein ~~a D₅E₁ portion of the silicon containing metal material of the conductive agent comprising D₅E₁ includes a material~~ is selected from a group of materials consisting of SiB_4 , SiB_6 , Mg_2Si , TiSi_2 , MoSi_2 , CoSi_2 , NiSi_2 , CaSi_2 , CrSi_2 , Cu_5Si , FeSi_2 , MnSi_2 , NbSi_2 , TaSi_2 , VSi , WSi_2 , and ZnSi_2 and mixtures thereof.

23. (previously presented) The non-aqueous electrolyte secondary cell of Claim 4, wherein said non-aqueous electrolyte solution comprises an electrolyte salt and a non-aqueous solvent.

24. (previously presented) The non-aqueous electrolyte secondary cell of Claim 23, wherein said electrolyte salt is a lithium salt having ion conductivity.

25. (previously presented) The non-aqueous electrolyte secondary cell of Claim 24, wherein said lithium salt is selected from the group consisting of LiClO_4 , LiAsF_6 , LiPF_6 , LiBF_4 , $\text{LiB}(\text{C}_6\text{H}_5)_4$, LiCl , LiBr , $\text{CH}_3\text{SO}_3\text{Li}$, $\text{N}(\text{C}_n\text{F}_{2n}\text{SO}_2)_2\text{Li}$, and mixtures thereof.

26. (previously presented) The non-aqueous electrolyte secondary cell of Claim 23, wherein said non-aqueous solvent is selected from the group consisting of propylene carbonate, ethylene carbonate, 1,2-dimethoxyethane, 1,2-diethoxyethane, diethyl carbonate, methyl ethyl carbonate, dimethyl carbonate, γ -butyrolactone, tetrahydrofuran, 1,3-dioxolane, 4-methyl-1,3-dioxolane, diethyl ether, sulfolane, methyl sulfolane, acetonitrile, propionitrile, and mixtures thereof.

27. (previously presented) The non-aqueous electrolyte secondary cell of Claim 1, wherein the cathode further comprises a conductive material and a binder.

28. (previously presented) The non-aqueous electrolyte secondary cell of Claim 1, wherein the anode further includes a molded and sintered current collector material combined with said sintered carbon material.

29. (currently amended) The non-aqueous electrolyte secondary cell of Claim 1, wherein ~~E~~ the tin or silicon containing metal material includes a metal ~~is~~ selected from ~~a~~ the list of elements and compounds consisting of ~~B₄, B₆ B, Mg₂ Mg,~~ Ti, Mo, Co, Ni, Ca, Cr, ~~Cu~~ Cu, Fe, Mn, Nb, Ta, V, W, ~~Mg₂ Si, Ni₂ Si.~~

30. (previously presented) The non-aqueous electrolyte secondary cell of Claim 4, wherein said cathode further comprises a conductive material and a binder.

31. (previously presented) The non-aqueous electrolyte secondary cell of Claim 4, wherein the anode further includes a molded and sintered current collector material combined with said sintered carbon material.

32. (currently amended) The non-aqueous electrolyte secondary cell of Claim 4, wherein ~~E~~ the silicon metal material includes Mg_2Si , Ni_2Si .